

Rec'd PCT/PTO 16 DEC 2004

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
31 December 2003 (31.12.2003)

PCT

(10) International Publication Number
WO 2004/002131 A1

(51) International Patent Classification⁷: H04N 1/32, 7/08

(21) International Application Number:
PCT/IB2003/002626

(22) International Filing Date: 12 June 2003 (12.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02077500.3 24 June 2002 (24.06.2002) EP

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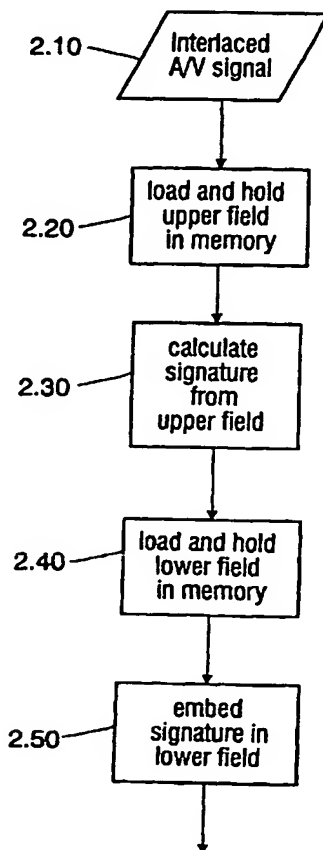
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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: REAL-TIME SIGNATURE EMBEDDING IN VIDEO



(57) Abstract: A method and system for embedding an authentication signature in an audio-visual signal such that only a part of an entire frame of the audio-visual signal is stored in a memory while the signature bits are calculated and the watermark is embedded. A signature is formed based on a first portion of said audio-visual signal, whereby said first portion is a pattern of horizontal lines of said audio-visual signal and has fewer lines than the number of lines of the entire audio-visual signal. Thereafter the signature generated is embedded in said audio-visual signal in the first portion and/or in another portion of the frame to be authenticated, whereby the other portion also is a pattern of horizontal lines. Thus only memory for some lines instead for all lines of the audio-visual signal is needed. In the case of an interlaced audio-visual signal, the first portion is preferably the first field of a frame of said audio-visual signal and the second portion is the second field of said audio-visual signal. In the case of a non-interlaced audio-visual signal, slices of said lines are preferably used for said portions.